

Figure 1

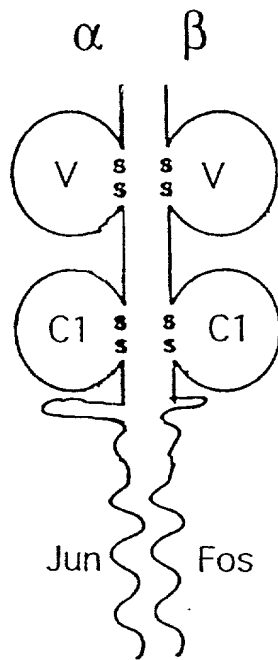


Figure 2

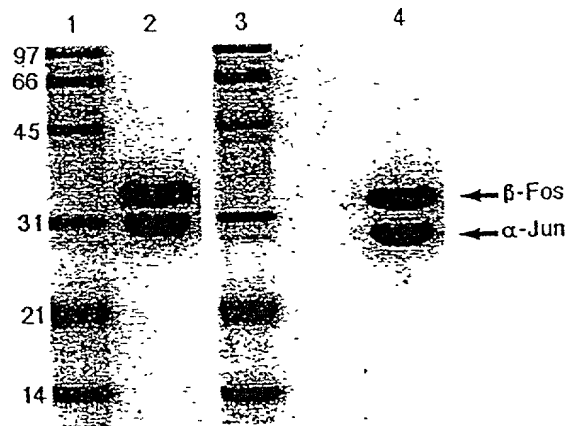
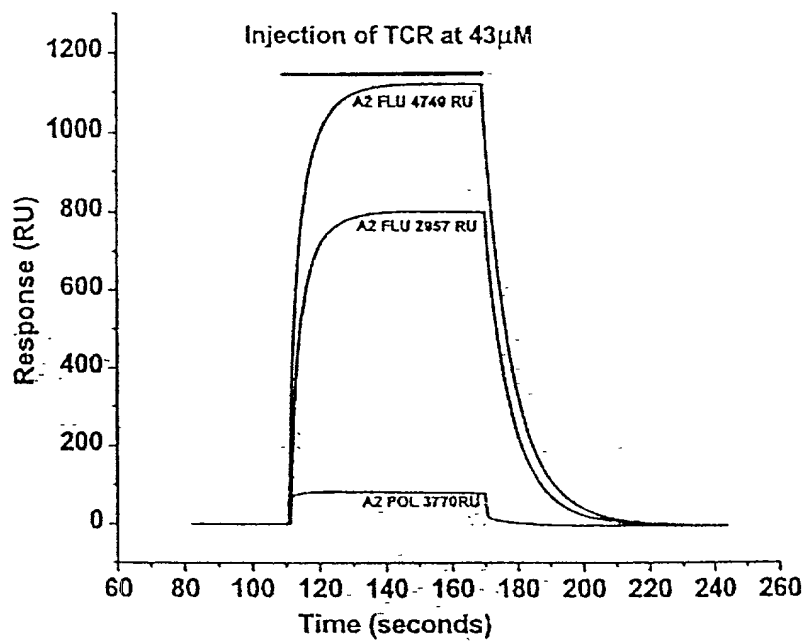


Figure 3



A

Xho I

5'- TAA ATA CTC GAG GCG CGC CCC CCC CCC CCC CCG -3'

B

Xba I

5'- ATA TAA CCC GGG GAA CCA GAT CCC CAC AGG AAC TTT CTG GGC TGG GGA -3'

C

Xba I
5'- ATA TAA CCC GGG GAA CCA GAT CCC CAC AGT CTG CTC TAC CCC AGG CC -3'

Figure 5

A*c-jun* 5' primer:

Xma I

5' - CATACACCCGGGGGTAGAATCGCCCGGCTGGAG -3'**B***c-jun* 3' primer:

Xho I

5' - GTGTGTGCTCGAGGATCCTAGTAGTTCATGACTTTCTGTTTAAGCTGTGC -3'

Bam HI

C*c-fos* 5' primer:

Xma I

5' -CATACACCCGGGGTCTGACTGATACACTCCAAGCGGAG -3'**D***c-fos* 3' primer:

Xho I

5' - TGTGTGCTCGAGGATCCTAGTAAGCTGCCAGGATGAACTCTAGTTTTTC -3'

Bam HI

Figure 6.

A

5' - AGA ATC GCC CGG CTG GAG GAA AAA GTG AAA ACC TTG AAA GCT CAG AAC TCG GAG CTG GCG
 R I A R L E E K V K T L K A Q N S E L A
 TCC ACG GCC AAC ATG CTC AGG GAA CAG GTG GCA CTT AAA CAG AAA GTC ATG AAC TAC -3'
 S T A N M L R E Q V A Q L K Q K V M N Y

C-jun leucine zipper DNA and amino acid (one-letter code) sequences as fused to TCR alpha chains.

B

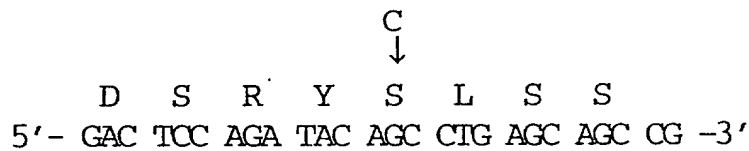
5' - CTG ACT GAT ACA CTC CAA GCG GAG ACA GAC CAA CTA GAA GAT GAG AAG TCT GCT TTG CAG
 L T D T L Q A E T D Q L E D E K S A L Q
 ACC GAG ATT GCC AAC CTG CTG AAG GAG AAG GAA AAA CTA GAG TTC ATC CTG GCA GCT TAC -3'
 T E I A N L L K E K E K L E F I L A A Y

C-fos leucine zipper DNA and amino acid (one-letter code) sequences as fused to TCR beta chains.

Figure 7

A

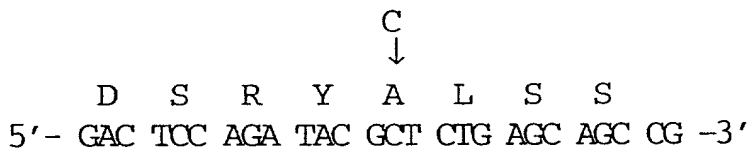
Mutation of cysteine to serine, forwards (sense) primer, indicating amino acid sequence and the mutation:

**B**

Mutation of cysteine to serine, backwards (nonsense) primer:

**C**

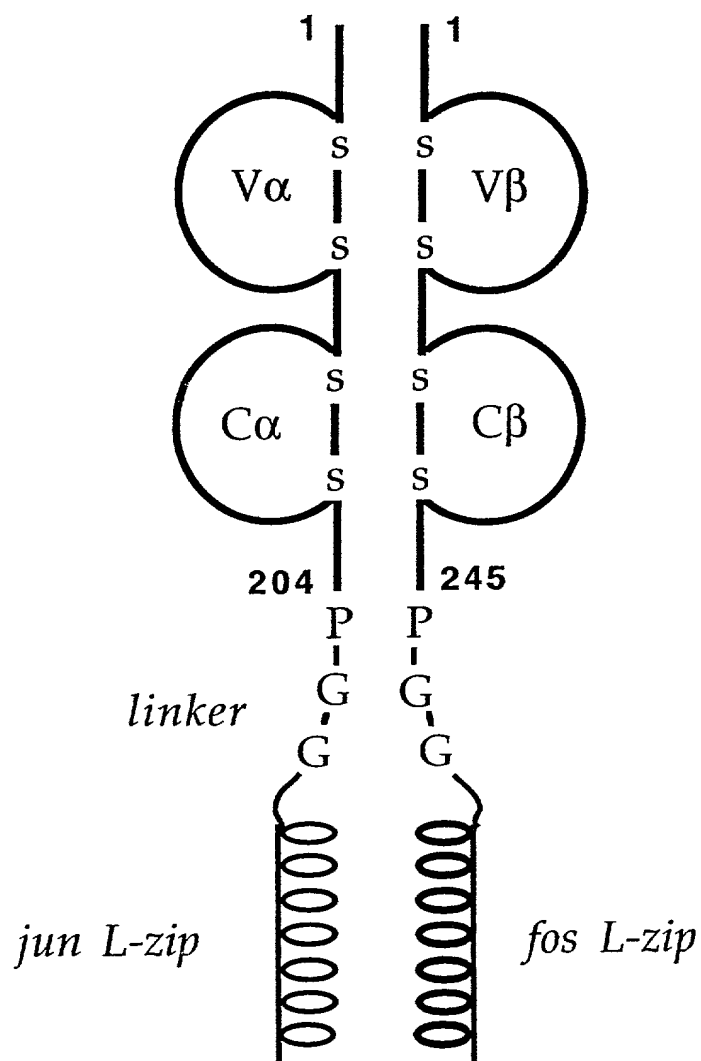
Mutation of cysteine to alanine, forwards (sense) primer, indicating amino acid sequence and the mutation:

**D**

Mutation of cysteine to alanine, backwards (nonsense) primer:



Figure 8



A
5' PCR primer for the human V α 10.2 chain of the JM22 Influenza Matrix peptide-HLA-A0201 restricted TCR:

S I Q E
AGC ATC CAA GAG G -3'

5'- gctctagacat ATG GIG GAT GGT GGA ATC ACT CAG TCC C -3'

Nde I

5'- gctctagacat ATG GAt TcT GTt ACT CAa ATG CAa GGT CAa GTG
Nde I

T L S S
ACC CTC TCA TCA G -3'

Figure 9 (continued)

D

5' PCR primer for the mouse V β 11 chain of the Influenza nucleoprotein peptide-H2-D^b restricted TCR:

5' - gctctagacat ATG M E P T N A G V I Q
GAA CCA ACA AAT GCT GGT GTT ATC CAA

T P R H
ACA CCT AGG CAC -3'

E

5' PCR primer for the human V α 23 chain of the 003 HIV-1 Gag peptide-HLA-A0201 restricted TCR:

5' - ggaattccat atg M K Q E V T Q I
AAA CAa GAG GTT ACa CAa ATT CC -3'
Nde I

F

5' PCR primer for the human V β 5.1 chain of the 003 HIV-1 Gag peptide-HLA-A0201 restricted TCR:

5' - ggaattccat atg M K A G V T Q T
AAa GCT GGA GTT ACT CAA ACT CC -3'

Figure 9 (continued)

G

5' PCR primer for the human V α 2.3 chain of the HTLV-1 Tax peptide-HLA-A0201 restricted A6 TCR:

M Q K E V E Q K

5' -cccccc cat ATG CAG AAG GAA GTG GAG CAG AAC -3'

Nde I

H

5' PCR primer for the human V β 12.3 chain of the HTLV-1 Tax peptide-HLA-A0201 restricted A6 TCR:

M K A G V T Q T

5' - ccccc cat ATG AAC GCT GGT GTC ACT CAG ACC -3'

Nde I

I

5' PCR primer for the human V α 17.2 chain of the HTLV-1 Tax peptide-HLA-A0201 restricted B7 TCR:

M Q Q K N D D Q Q V

5' -cccccc cat ATG CAA CAa AAa AAT GAT GAC CAG CAA GTT

Nde I

K Q N

AAG CAA AAT -3'

Figure 9 (continued)

J

5' PCR primer for the human V β 12.3 chain of the HTLV-1 Tax peptide-HLA-A0201 restricted B7 TCR:

5' -cccccc cat ATG AAC GCT GGT GTC ACT CAG ACC CCA AAA TTC
 M N A G V T Q T P K F
 Nde I

Q

CAG -3'

K

3' PCR primer for human C α chains, generally applicable:

5' - cataca ccc ggg GGA ACT TTC TGG GCT GGG GAA GAA GG -3'
 Xma I

L

3' PCR primer for human C β chains, generally applicable:

5' - cataca ccc ggg GTC TGC TCT ACC CCA GGC CTC -3'
 Xma I

Figure 10

TCR alfa>

M Q L L E Q S P Q F L S I Q E G E N L T
 ATGCAaCTaCTaGAaCAaAGtCCTCAGTTTCTAAGCATCCAAGAGGGAGAAAATCTCACT

V Y C N S S S V F S S L Q W Y R Q E P G
 GTGTACTGCAACTCCTCAAGTGTTTTTCCAGCTTACAATGGTACAGACAGGAGCCTGGG

E G P V L L V T V V T G G E V K K L K R
 GAAGGTCTGTCTCTGGTGACAGTAGTTACGGGTGGAGAAGTGAAGAAGCTGAAGAGA

L T F Q F G D A R K D S S L H I T A A Q
 CTAACCTTTCAGTTTGGTGATGCAAGAAAGGACAGTTCTCTCCACATCACTGCGGCCAG

P G D T G L Y L C A G A G S Q G N L I F
 CCTGGTGATACAGGCCCTCTACCTCTGTGCAGGAGCGGGAAGCCAAGGAAATCTCATCTTT

G K G T K L S V K P N I Q N P D P A V Y
 GGAAAAGGCACTAAACTCTCTGTAAACCAAATATCCAGAACCTGACCGTGCCGTGTAC

Q L R D S K S S D K S V C L F T D F D S
 CAGCTGAGAGACTCTAAATCCAGTGACAAGTCTGTCTGCCTATTACCGATTTTGATTCT

Q T N V S Q S K D S D V Y I T D K T V L
 CAAACAAATGTGTACAAAGTAAGGATTCTGATGTGTATATCACAGACAAAATGTGCTA

D M R S M D F K S N S A V A W S N K S D
 GACATGAGGTCTATGGACTTCAAGAGCAACAGTGCTGTGGCCTGGAGCAACAAATCTGAC

F A C A N A F N N S I I P E D T F F P S
 TTTGCATGTGCAAAACGCTTCAACAACAGCATTATTCCAGAAGACACCTTCTTCCCCAGC

<TCR alfa linker c-jun>

P E S S P G G R I A R L E E K V K T L K
 CCAGAAAGTTCCcgcgggGGTAGAATCGCCGGCTGGAGGAAAAAGTGAAAACCTTGAAA

A Q N S E L A S T A N M L R E Q V A Q L
 GCTCAGAACTCGGAGCTGGCGTCCACGGCCAACATGCTCAGGGAACAGGTGGCACAGCTT

K Q K V M N Y *
 AAACAGAAAGTCATGAACCTACTAG

Figure 11

TCR beta>

M V D G G I T Q S P K Y L F R K E G Q N
ATGGTGGATGGTGAATCACTCAGTCCCCAAAGTACCTGTTTCAGAAAGGAAGGACAGAAT

V T L S C E Q N L N H D A M Y W Y R Q D
GTGACCCTGAGTTGTGAACAGAATTTGAACCACGATGCCATGTACTGGTACCGACAGGAC

P G Q G L R L I Y Y S Q I V N D F Q K G
CCAGGGCAAGGGCTGAGATTGATCTACTACTCACAGATAGTAAATGACTTTTCAGAAAGGA

D I A E G Y S V S R E K K E S F P L T V
GATATAGCTGAAGGGTACAGCGTCTCTCGGGAGAAGAAGGAATCCTTTCTCTCACTGTG

T S A Q K N P T A F Y L C A S S S R S Sq
ACATCGGCCCAAAAGAACCCGACAGCTTCTATCTCTGTGCCAGTAGTTTCGAGGAGCTCC

Y E Q Y F G P G T R L T V T E D L K N V
TACGAGCAGTACTTCGGGCCCGGGCACCAGGCTCACGGTCACAGAGGACCTGAAAAACGTT

F P P E V A V F E P S E A E I S H T Q K
TTCCCAACCGAGGTGCTGTGTTTGAACCATCAGAAGCAGAGATCTCCACACCCAAAAG

A T L V C L A T G F Y P D H V E L S W W
GCCCACTGGTGTGCCTGGCCACAGGCTTCTACCCCGACCACGTGGAGCTGAGCTGGTGG

V N G K E V H S G V S T D P Q P L K E Q
GTGAATGGGAAGGAGGTGCACAGTGGGGTCAGCACAGACCCGAGCCCCTCAAGGAGCAG

P A L N D S R Y C L S S R L R V S A T F
CCCGCCCTCAATGACTCCAGATACTGCCTGAGCAGCCGCTGAGGGTCTCGGCCACCTTC

W Q N P R N H F R C Q V Q F Y G L S E N
TGGCAGAACCCCCGAACCACTTCCGCTGTCAAGTCCAGTTCTACGGGCTCTCGGAGAAT

D E W T Q D R A K P V T Q I V S A E A W
GACGAGTGGACCCAGGATAGGGCCAAACCTGTACCCAGATCGTCAGCGCCGAGGCCTGG

<TCR beta linker c-fos>

G R A D P G G L T D T L Q A E T D Q L E
GGTAGAGCAGACcccgggGGTCTGACTGATACACTCCAAGCGGAGACAGATCAACTTGAA

D K K S A L Q T E I A N L L K E K E K L
GACAAGAAGTCTGCGTTGCAGACCGAGATTGCCAATCTACTGAAAGAGAAGGAAAACTA

E F I L A A Y *
GAGTTCATCCTGGCAGCTTACTAG

Figure 12

TCR alfa>

M N Y S P A L V T V M L F V F G R T H G
ATGAACTATTCTCCAGCTTTAGTGACTGTGATGCTGTTTGTGTTTGGGAGGACCCATGGA

D S V T Q M Q G Q V T L S E D D F L F I
GACTCAGTAACCCAGATGCAAGGTCAAGTGACCTCTCAGAAGACGACTTCCTATTTATA

N C T Y S T T W Y P T L F W Y V Q Y P G
AACTGTACTTATCAACCACATGGTACCCGACTCTTTTCTGGTATGTCCAATATCCTGGA

E G P Q L L L K V T T A N N K G I S R G
GAAGGTCCACAGCTCCTTTTGAAAGTCACAACAGCCAACAACAAGGAATCAGCAGAGGT

F E A T Y D K G T T S F H L Q K A S V Q
TTTGAAGCTACATATGATAAAGGAACAACGTCCTTCCACTTGCAGAAAGCCTCAGTGCAG

E S D S A V Y Y C V L G D R Q G G R A L
GAGTCAGACTCTGCTGTGTACTACTGTGTGCTGGGTGATCGACAGGGAGGCAGAGCTCTG

I F G T G T T V S V S P N I Q N P E P A
ATATTTGGAACAGGAACACGGTATCAGTCAGCCCCAACATCCAGAAGCCAGAACCTGCT

V Y Q L K D P R S Q D S T L C L F T D F
GTGTACCAGTTAAAAGATCCTCGGTCTCAGGACAGCACCTCTGCCTGTTCACCGACTTT

D S Q I N V P K T M E S G T F I T D K T
GACTCCCAAATCAATGTGCCGAAAACCATGGAATCTGGAACGTTTCATCACTGACAAAAC

V L D M K A M D S K S N G A I A W S N Q
GTGCTGGACATGAAAGCTATGGATTCCAAGAGCAATGGGGCCATTGCCTGGAGCAACCAG

T S F T C Q D I S K E T N A T Y P S S D
ACAAGCTTCACCTGCCAAGATATCTCCAAAGAGACCAACGCCACCTACCCAGTTCAGAC

<TCR alfa linker c-jun>

V P G G R I A R L E E K V K T L K A Q N
GTTcccggtgGTAGAATCGCCCGGTGGAGGAAAAAGTGAAAACCTTGAAAGCTCAGAAC

S E L A S T A N M L R E Q V A Q L K Q K
TCGGAGCTGGCGTCCACGCCAACATGCTCAGGGAACAGGTGGCACAGCTTAAACAGAAA

V M N Y *
GTCATGAACTACTAG

Figure 13

TCR beta>

M K A G V T Q T P R Y L I K T R G Q Q V
ATGAAAGCTGGAGTTACTCAAACCTCAAGATATCTGATCAAAACGAGAGGACAGCAAGTG

T L S C S P I S G H R S V S W Y Q Q T P
ACACTGAGCTGCTCCCCATCTCTGGGCATAGGAGTGTATCCTGGTACCAACAGACCCCA

G Q G L Q F L F E Y F S E T Q R N K G N
GGACAGGGCCTTCAGTTCTCTTTGAATACTTCAGTGAGACACAGAGAAACAAAGGAAAC

F P G R F S G R Q F S N S R S E M N V S
TTCCCTGGTTCGATTCTCAGGGCGCCAGTTCTCTAACTCTCGCTCTGAGATGAATGTGAGC

T L E L G D S A L Y L C A S S F D S G N
ACCTTGGAGCTGGGGGACTCGGCCCTTTATCTTTGCGCCAGCAGCTTCGACAGCGGGAAT

S P L H F G N G T R L T V T E D L N K V
TCACCCCTCCACTTTGGGAACGGGACCAGGCTCACTGTGACAGAGGACCTGAACAAGGTG

F P P E V A V F E P S E A E I S H T Q K
TTCCACCCCGAGGTGCTGTGTTTGAGCCATCAGAAGCAGAGATCTCCACACCCAAAAG

A T L V C L A T G F F P D H V E L S W W
GCCACACTGGTGTGCCTGGCCACAGGCTTCTTCCCTGACCACGTGGAGCTGAGCTGGTGG

V N G K E V H S G V S Q D P Q P L K E Q
GTGAATGGGAAGGAGGTGCACAGTGGGGTCAGCCAGGACCCGCAGCCCTCAAGGAGCAG

P A L N D S R Y S L S S R L R V S A T F
CCCGCCCTCAATGACTCCAGATACAGCCTGAGCAGCCGCCTGAGGGTCTCGGCCACCTTC

W Q N P R N H F R C Q V Q F Y G L S E N
TGGCAGAACCCCGCAACCACTTCCGCTGTCAAGTCCAGTTCTACGGGCTCTCGGAGAAT

D E W T Q D R A K P V T Q I V S A E A W
GACGAGTGGACCCAGGATAGGGCCAAACCTGTCACCCAGATCGTCAGCGCCGAGGCCTGG

<TCR beta linker c-fos>

G R A D P G G L T D T L Q A E T D Q L E
GGTAGAGCAGACCCCGGGGTCTGACTGATACACTCCAAGCGGAGACAGATCAACTTGAA

D K K S A L Q T E I A N L L K E K E K L
GACAAGAAGTCTGCGTTGCAGACCGAGATTGCCAATCTACTGAAAGAGAAGGAAAAACTA

E F I L A A Y *
GAGTTCATCCTGGCAGCTTACTAG

Figure 14

TCR alfa>

M K Q E V T Q I P A A L S V P E G E N L
 ATGAAACAAGAAGTTACACAGATTCCTGCAGCTCTGAGTGTCCAGAAGGAGAAAAGT

V L N C S F T D S A I Y N L Q W F R Q D
 GTTCTCAACTGCAGTTTCACTGATAGCGCTATTACAACTCCAGTGGTTTAGGCAGGAC

P G K G L T S L L L I Q S S Q R E Q T S
 CCTGGGAAAGGTCTCACATCTCTGTGCTTATTCAGTCAAGTCAGAGAGAGCAAACAAGT

G R L N A S L D K S S G R S T L Y I A A
 GGAAGACTTAATGCCTCGCTGGATAAATCATCAGGACGTAGTACTTTATACATTGCAGCT

S Q P G D S A T Y L C A V T N F N K F Y
 TCTCAGCCTGGTGACTCAGCCACCTACCTCTGTGCTGTGACCAACTTCAACAAATTTTAC

F G S G T K L N V K P N I Q N P D P A V
 TTTGGATCTGGGACCAAACCTCAATGTAAAACCAAATATCCAGAACCCTGACCCTGCCGTG

Y Q L R D S K S S D K S V C L F T D F D
 TACCAGCTGAGAGACTCTAAATCCAGTGACAAGTCTGTCTGCCTATTACCGATTTTGAT

S Q T N V S Q S K D S D V Y I T D K T V
 TCTCAAACAAATGTGTACAAAGTAAGGATTCTGATGTGTATATCACAGACAAAACGTG

L D M R S M D F K S N S A V A W S N K S
 CTAGACATGAGGTCTATGGACTTCAAGAGCAACAGTGCTGTGGCCTGGAGCAACAAATCT

D F A C A N A F N N S I I P E D T F F P
 GACTTTGCATGTGCAAACGCCTTCAACAACAGCATTATTCCAGAAGACACCTTCTTCCCC

<TCR alfa linker c-jun>

S P E S S P G G R I A R L E E K V K T L
 AGCCCAGAAAGTTCCcccgggGGTAGAATCGCCCGGCTGGAGGAAAAAGTGAAAACCTTG

K A Q N S E L A S T A N M L R E Q V A Q
 AAAGCTCAGAACTCGGAGCTGGCGTCCACGGCCAACATGCTCAGGGAACAGGTGGCACAG

L K Q K V M N Y *
 CTTAAACAGAAAGTCATGAACTACTAG

Figure 15

TCR beta>
M K A G V T Q T P R Y L I K T R G Q Q V
ATGAAAGCTGGAGTTACTCAAACCTCCAAGATATCTGATCAAAACGAGAGGACAGCAAGTG
T L S C S P I S G H R S V S W Y Q Q T P
ACACTGAGCTGCTCCCCCTATCTCTGGGCATAGGAGTGTATCCTGGTACCAACAGACCCCA
G Q G L Q F L F E Y F S E T Q R N K G N
GGACAGGGCCTTCAGTTCCCTCTTTGAATACTTCAGTGAGACACAGAGAAACAAAGGAAAC
F P G R F S G R Q F S N S R S E M N V S
TTCCCTGGTTCGATTCTCAGGGCGCCAGTTCTTAACCTCTCGCTCTGAGATGAATGTGAGC
T L E L G D S A L Y L C A S S F D S G N
ACCTTGGAGCTGGGGGACTCGGCCCTTTATCTTTGCGCCAGCAGCTTCGACAGCGGGAAT
S P L H F G N G T R L T V T E D L N K V
TCACCCCTCCACTTTGGGAACGGGACCAGGCTCACTGTGACAGAGGACCTGAACAAGGTG
F P P E V A V F E P S E A E I S H T Q K
TTCCACCCGAGGTGCTGTGTTTGAGCCATCAGAAGCAGAGATCTCCACACCCAAAAG
A T L V C L A T G F F P D H V E L S W W
GCCACACTGGTGTGCCTGGCCACAGGCTTCTTCCCTGACCACGTGGAGCTGAGCTGGTGG
V N G K E V H S G V S Q D P Q P L K E Q
GTGAATGGGAAGGAGGTGCACAGTGGGGTCAGCCAGGACCCGAGCCCTCAAGGAGCAG
P A L N D S R Y S L S S R L R V S A T F
CCCGCCCTCAATGACTCCAGATACAGCCTGAGCAGCCGCTGAGGGTCTCGGCCACCTTC
W Q N P R N H F R C Q V Q F Y G L S E N
TGGCAGAACCCCGCAACCACTTCCGCTGTCAAGTCCAGTTCTACGGGCTCTCGGAGAAT
D E W T Q D R A K P V T Q I V S A E A W
GACGAGTGGACCCAGGATAGGGCCAAACCTGTCACCCAGATCGTCAGCGCCGAGGCCTGG
<TCR beta linker c-fos>
G R A D P G G L T D T L Q A E T D Q L E
GGTAGAGCAGACcccgggGGTCTGACTGATACACTCCAAGCGGAGACAGATCAACTTGAA
D K K S A L Q T E I A N L L K E K E K L
GACAAGAAGTCTGCGTTGCAGACCGAGATTGCCAATCTACTGAAAGAGAAGGAAAACTA
E F I L A A Y *
GAGTTCATCCTGGCAGCTTACTAG

Figure 16

TCR alfa>
 M Q K E V E Q N S G P L S V P E G A I A
 atgCAGAGGAAGTGGAGCAGAACTCTGGACCCCTCAGTGTTCAGAGGGAGCCATTGCC

 S L N C T Y S D R G S Q S F F W Y R Q Y
 TCTCTCAACTGCACCTTACAGTGCACCGAGGTTCCAGTCTTCTCTCTGGTACAGACAATAT

 S G K S P E L I M S I Y S N G D K E D G
 TCTGGGAAAAGCCCTGAGTTGATAATGTCCATATACTCCAATGGTGACAAAGAGATGGA

 R F T A Q L N K A S Q Y V S L L I R D S
 AGGTTTACAGCACAGCTCAATAAAGCCAGCCAGTATGTTTCTCTGCTCATCAGAGACTCC

 Q P S D S A T Y L C A V T T D S W G K L
 CAGCCAGTGATTTCAGCCACCTACCTCTGTGCGGTTACAACAGACAGCTGGGGGAAATTG

 Q F G A G T Q V V V T P D I Q N P D P A
 CAGTTTGGAGCAGGGACCCAGGTTGTGGTCACCCCAGATATOCAGAACCCCTGACCCCTGCC

 V Y Q L R D S K S S D K S V C L F T D F
 GTGTACAGCTGAGAGACTCTAAATCCAGTGACAAGTCTGTCTGCCTATTACACCGATTTT

 D S Q T N V S Q S K D S D V Y I T D K T
 GATTCTCAACAATAATGTGTCAAAAGTAAGGATTCTGTGTGTATATCACAGACAAAAC

 V L D M R S M D F K S N S A V A W S N K
 GTGCTAGACATGAGGTCATGGACTTCAAGAGCAACAGTGTCTGTGGCTGGAGCAACAAA

 S D F A C A N A F N N S I I P E D T F F
 TCTGACTTTGCATGTGCAAAAGCCCTCAACAACAGCATTATTCAGAGACACCTTCCTC

 <TCR alfa linker c-jun>
 P S P E S S P G G R I A R L E E K V K T
 CCCAGCCCAAGAAAGTTCCcccgggGGTAGAATGCCCCGGCTGGAGCAAAAAGTGAAAACC

 L K A Q N S E L A S T A N M L R E Q V A
 TTGAAAGCTCAGAACTGGAGCTGGCGTCCACGGCCAACATGCTCAGGGAACAGGTGGCA

 Q L K Q K V M N Y *
 CAGCTTAAACAGAAAGTCATGAACTACTAG

Figure 17

TCR beta>

M N A G V T Q T P K F Q V L K T G Q S M
atgAACGCTGGTGTCACTCAGACCCCAAAATTCAGGTCTGAAGACAGGACAGGCATG

T L Q C A Q D M N H E Y M S W Y R Q D P
ACACTGCAGTGTGCCCAGGATATGAACCATGAATACATGTCTGGTATCGACAAGACCCA

G M G L R L I H Y S V G A G I T D Q G E
GGCATGGGGCTGAGGCTGATTCTACTCAGTGGTGTCTGGTATCACTGACCAAGGAGAA

V P N G Y N V S R S T T E D F P L R L L
GTCCCCAATGGCTACAAATGTCTCCAGATCAACCACAGAGGATTTCCCGCTCAGGCTGCTG

S A A P S Q T S V Y F C A S R P G L A G
TCGGCTGCTCCCTCCAGACATCTGTGTACTTCTGTGCCAGCAGGCGGGACTAGCGGGA

G R P E Q Y F G P G T R L T V T E D L K
GGGCGAACAGAGCAGTACTTCCGGCCGGGCAACAGGCTCACGGTACAGAGGACCTGAAA

N V F P P E V A V F E P S E A E I S H T
AAGGTGTTCACCACCCGAGGTGCTGTGTTCAGCCATCAGAAGCAGAGATCTCCACACC

Q K A T L V C L A T G F Y P D H V E L S
CAAAAGGCCACACTGGTGTGCTGGCCACAGGCTTCTACCCCGACCAAGTGGAGCTGAGC

W W V N G K E V H S G V S T D P Q P L K
TGGTGGGTGAATGGGAAGGAGGTGCACAGTGGGGTCAGCACAGACCCCGAGCCCCCTCAAG

E Q P A L N D S R Y A L S S R L R V S A
GAGCAGCCCGCCCTCAATGACTCCAGATAGCTCTGAGCAGCCCGCTGAGGGTCTCGCC

T F W Q N P R N H F R C Q V Q F Y G L S
ACCTTCTGGCAGAACCCCGCAACCACTTCGCTGTCAAGTCCAGTTCACGGGCTCTCG

E N D E W T Q D R A K P V T Q I V S A E
GAGAATGACGAGTGGACCCAGGATAGGGCCAAACCTGTACCCAGATGCTCAGCGCGAG

<TCR beta linker c-fos>

A W G R A D P G G L T D T L Q A E T D Q
GGCTGGGGTAGAGCAGACcccgggGGTCTGACTGATACACTCCAAGCGAGACAGATCAA

Continued

TCR beta c-fos

Figure 18

TCR alfa>

M Q Q K N D D Q Q V K Q N S P S L S V Q
atgCAACAGAAGAATGATGACCAGCAAGTTAAGCAAAATTACCATCCCTGAGCGTCCAG

E G R I S I L N C D Y T N S M F D Y F L
GAAGGAAGAATTTCTATTTCTGAACGTGACTATCTAACAGCATGTTTGATTATTTTCTA

W Y K K Y P A E G P T F L I S I S S I K
TGGTACAAAAATACCTGCTGAAGGTCTACATTCCTGATATCTATAAGTTCATTAAAG

D K N E D G R F T V F L N K S A K H L S
GATAAAATGAAGATGGAAGATTCAGTGTCTTCTTAAACAAAAGTGCCAAGCACCTCTCT

L H I V P S Q P G D S A V Y F C A A M E
CTGCACATTGTGCCCTCCAGCCTGGAGACTCTGCAGTGTACTTCTGTGCAGCAATGGAG

G A Q K L V F G Q G T R L T I N P N I Q
GGAGCCCAGAAGCTGGTATTTGGCCAAGGAACCAGGCTGACTATCAACCCAAATATCCAG

N P D P A V Y Q L R D S K S S D K S V C
AACCCTGACCTTGGCGTGTACAGCTGAGAGACTCTAAATCCAGTGACAAGTCTGTCTGC

L F T D F D S Q T N V S Q S K D S D V Y
CTATTACCGATTTTGATTCTCAACAAATGTGTACAAAGTAAGGATTTCTGATGTGTAT

I T D K T V L D M R S M D F K S N S A V
ATCACAGACAAACTGTGCTAGACATGAGGTCTATGACTTCAAGAGCAACAGTGTCTGTG

A W S N K S D F A C A N A F N N S I I P
GCCTGGAGCAACAAATCTGACTTTGCATGTGCAAACGCCCTCAACAACAGCATTATTCOA

<TCR alfa linker c-jun>

E D T F F P S P E S S P G G R I A R L E
GAAGACACCTTCTTCCCCAGCCAGAAAGTTCCcgggGGTAGAATGCCCGGCTGGAG

E K V K T L K A Q N S E L A S T A N M L
GAAAAAGTGAAAACCTTGAAAGCTCAGAACTCGGAGCTGGCGTCCACGGCCAACATGCTC

R E Q V A Q L K Q K V M N Y *
AGGGAACAGGTGGCACAGCTTAAACAGAAAGTCATGAACCTACTAG

Figure 19

TCR beta>
M N A G V T Q T P K F Q V L K T G Q S M
atgAAGCTGGIGTCACTCAGACCCCAAAATTCAGGTCCTGAAGACAGGACAGAGCATG

T L Q C A Q D M N H E Y M S W Y R Q D P
ACACTGCAGTGTGCCAGGATATGAACCATGAATACATGTCTGGTATCGACAAGACCCA

G M G L R L I H Y S V G A G I T D Q G E
GGCATGGGGCTGAGGCTGATTCACTCAGTTGGTGCTGGTATCACTGACCAAGGAGAA

V P N G Y N V S R S T T E D F P L R L L
GTCCCCAATGGCTACAATGTCTCCAGATCAACCACAGAGATTTCCTCGCTCAGGCTGCTG

S A A P S Q T S V Y F C A S S Y P G G G
TGGCTGCTCCCTCCAGACATCTGTGTACTTCTGTGCCAGCAGTACCaGGaGGGGGGG

F Y E Q Y F G P G T R L T V T E D L K N
TTTTACGAGCAGTACTTGGGGCCGGCCACCAGGCTCAGGTCACAGAGGACCTGAAAAAC

V F P P E V A V F E P S E A E I S H T Q
GIGTTCACCCGAGGTGGCTGTGTTTGAGCCATCAGAAGCAGAGATCTCCACACCCAA

K A T L V C L A T G F Y P D H V E L S W
AAGGCCACACTGGIGTGCCTGGCCACAGGCTTCTACCCCGACCACGTGGAGCTGAGCTGG

W V N G K E V H S G V S T D P Q P L K E
TGGGTGAATGGGAAGCAGGTGCACAGTGGGGTCAGCACAGACCCGAGCCCTCAAGGAG

Q P A L N D S R Y A L S S R L R V S A T
CAGCCCCGCCCTCAATGACTCCAGATACgctCTGAGCAGCCGCTGAGGGTCTGGGCCACC

F W Q D P R N H F R C Q V Q F Y G L S E
TTCTGGCAGgACCCCCGCAACCACTTCCGCTGTCAAGTCCAGTTCTACGGGCTCTCGGAG

N D E W T Q D R A K P V T Q I V S A E A
AATGACGAGTGGACCCAGGATAGGGCCAAACCGTCACCCAGATCGTCAGCGCCGAGGCC

Continued.....

Figure 19 (continued)

<TCR beta linker c-fos>

W G R A D P G G L T D T L Q A E T D Q L
 TGGGGTAGAGCAGACcccgggGGTCTGACTGATACACTCCAAGCGAGACAGATCAACTT

E D K K S A L Q T E I A N L L K E K E K
 GAAGACAAGAAGTCTGGGTTCAGACCGAGATTGCCAATCTACTGAAAGAGAAGCAAAAA

linker Biotinylation tag>

L E F I L A A Y G S G G G L N D I F E A
 CTAGAGTTCATCCTGGCAGCTTACggatccGGTGGTGGTCTGAACGATATTTTGAAGCT

Q K I E W H *
 CAGAAAATCGAATGGCATTAAAGCTT

Figure 20

TCR beta>
M N A G V T Q T P K F Q V L K T G Q S M
atgAAAGCTGGTGTCACTCAGACCCCAAAATTCCAGGTCTGAAGACAGGACAGAGCATG

T L Q C A Q D M N H E Y M S W Y R Q D P
ACACTGCAGTGTGCCAGGATATCAACCATGAATACATGTCTGGTATCGACAAGACCCA

G M G L R L I H Y S V G A G I T D Q G E
GGCATGGGCTGAGGCTGATTCACTACTCAGTTGGTGTCTGGTATCACTGACCAAGGAGAA

V P N G Y N V S R S T T E D F P L R L L
GTCCCCAATGGCTACAATGTCTCCAGATCAACCACAGAGGATTTCCCGCTCAGGCTGCTG

S A A P S Q T S V Y F C A S R P G L A G
TGGCTGTCTCCCTCCAGACATCTGTGTACTTCTGTGOCAGCAGGCCGGGACTAGCGGA

G R P E Q Y F G P G T R L T V T E D L K
GGGCGACACAGCAGTACTTCCGGCCGGGCACCAGGCTCACGGTCACAGAGGACCTGAAA

N V F P P E V A V F E P S E A E I S H T
AAGTGTTCACCACCGAGGTGCTGTGTGAGCCATCAGAAGCAGAGATCTCCACACC

Q K A T L V C L A T G F Y P D H V E L S
CAAAAGGCCACACTGGTGTGCTGGCCACAGGCTTCTACCCCGACCACTGGAGCTGAGC

W W V N G K E V H S G V S T D P Q P L K
TGGTGGGTGAATGGGAAGGAGGTGCACAGTGGGGTCAGCACAGACCCCGCAGCCCCCTCAAG

E Q P A L N D S R Y A L S S R L R V S A
GAGCAGCCCCCTCAATGACTCCAGATACGCTCTGAGCAGCCGCTGAGGGTCTGGCC

T F W Q D P R N H F R C Q V Q F Y G L S
ACCTTCTGGCAGGACCCCCGCAACCACTTCCGCTGTCAAGTCCAGTTCTACGGGCTCTCG

E N D E W T Q D R A K P V T Q I V S A E
GAGAATGACGAGTGGACCCAGGATAGGGCCAAACCTGTACCCAGATCGTCAGCGCCGAG

Continued.....

<TCR beta linker c-fos>
 A W G R A D P G G L T D T L Q A E T D Q
 GOCTGGGGTAGAGCAGACcccgggGGTCTGACTGATCACTCCAAGCGAGACAGATCAA

 L E D K K S A L Q T E I A N L L K E K E
 CITGAGACACAAGAGTCTGGTGTGCAGACCGAGATTGCCAATCTACTGAAAGAGAAGGAA

 linker Biotinylation tag>
 K L E F I L A A Y G S G G G L N D I F E
 AAACTACAGTTTCATCTGCGAGCTTACggatccGGTGGTGGTCTGAACGATATTTTTTGAA

 A Q K I E W H *
 GCTCAGAAAATCGAATGGCATTAAGCTTT

<TCR beta linker c-fos>

A W G R A D P G G L T D T L Q A E T D Q
GCTCGGGTAGAGCAGACccccgggGGTCTGACTGATACCTCAAGCGGACACAGATCAA

LEDKKSA LQT EIANLLKEKE
CTTGAAGACAAGAAGTCTGCGTTGCAGACCGAGATTGCCAATCTACTGAAAGAGAAGGAA

linker Biotinylation tag

K L E F I L A A Y G S G G G L N D I F E
AAACTAGAGTTTCATCTGGCAGCTTACggatccGGGGGGGCTGAACGATATTTTGA

A Q K I E W H *

GCTCAGAAAATCGAATGGCATTAAAGCTT

Figure 21

Linker<-> fos

P G G L T D T L Q A E T D Q
 5'- ccc ggg GGT CTG ACT GAT ACA CTC CAA GCG GAG ACA GAT CAA
 Xma I

L E D K K S A L Q T E I A N L
 CTT GAA GAC AAG AAG TCT GCG TTG CAG ACC GAG ATT GCC AAT CTA

<-lin
 L K E K E K L E F I L A A Y G
 CTG AAA GAG AAG GAA AAA CTA GAG TTC ATC CTG GCA GCT TAC gga
 Bam

Ker-> <- biotinylation tag

S G G G L N D I F E A Q K I E
tcc GGT GGT GGT CTG AAC GAT ATT TTT GAA GCT CAG AAA ATC GAA
 HI

W H *
 TGG CAT TAA GCT T -3'
 Hind III

Figure 22

A

Reverse primer:

5' -ACACAC GGA TCC GTA AGC TGC GAC GAT GAA CTC GAT TTT CTT-
3'

Bam HI

29/SZ

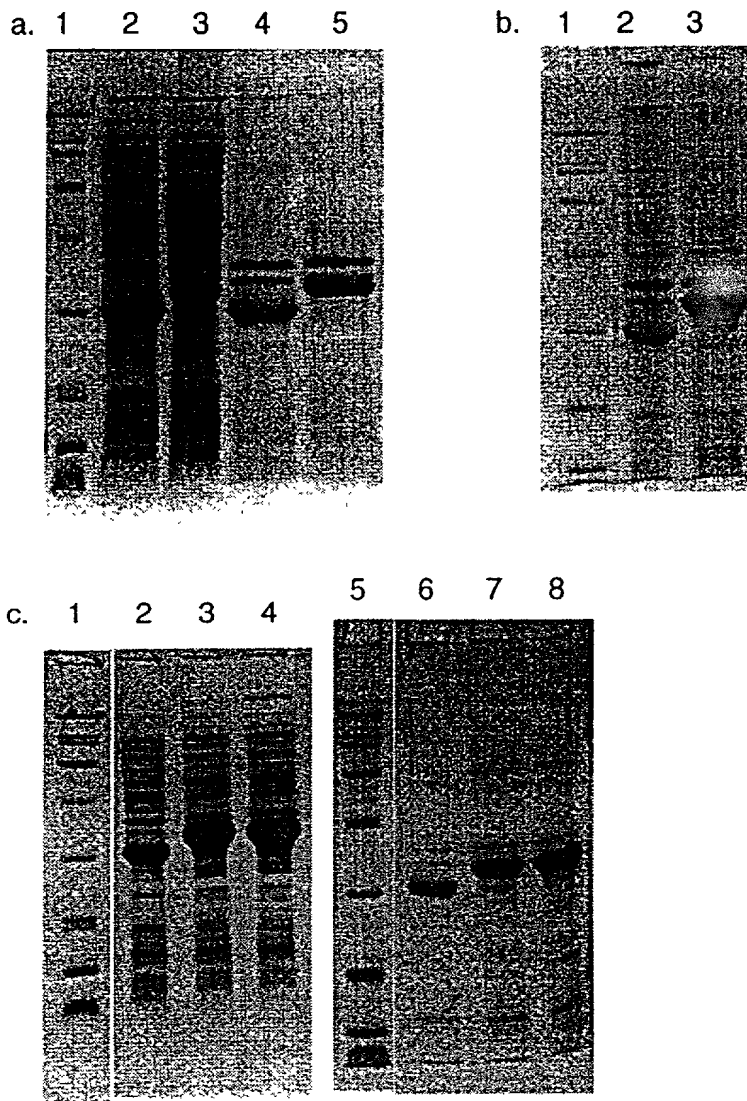


Figure 23

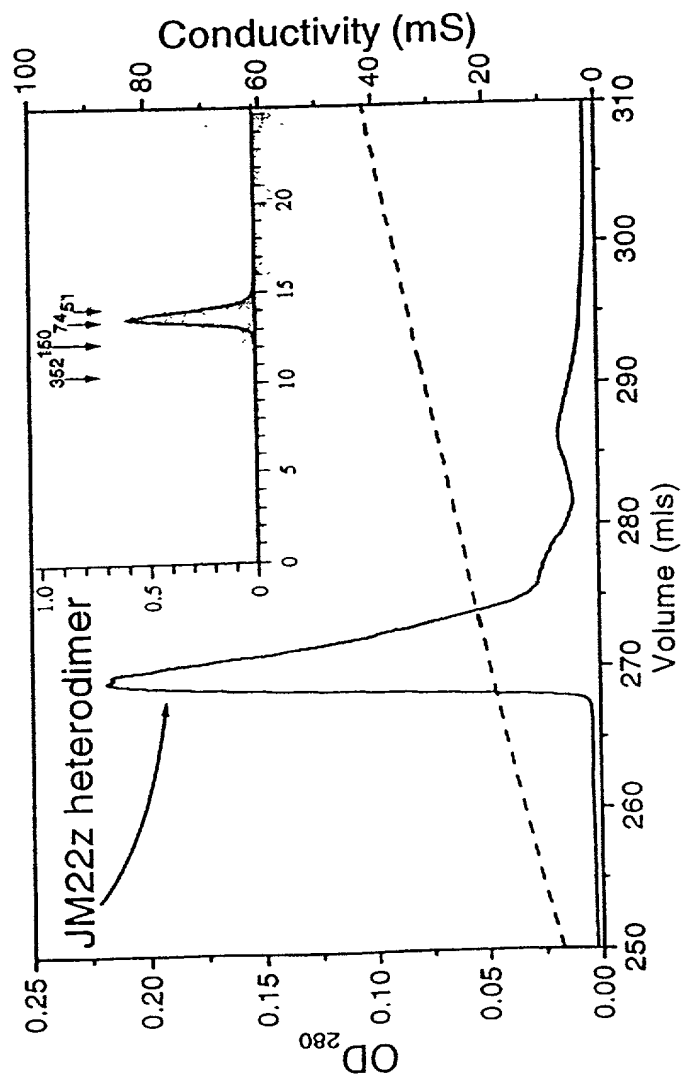


Figure 24.

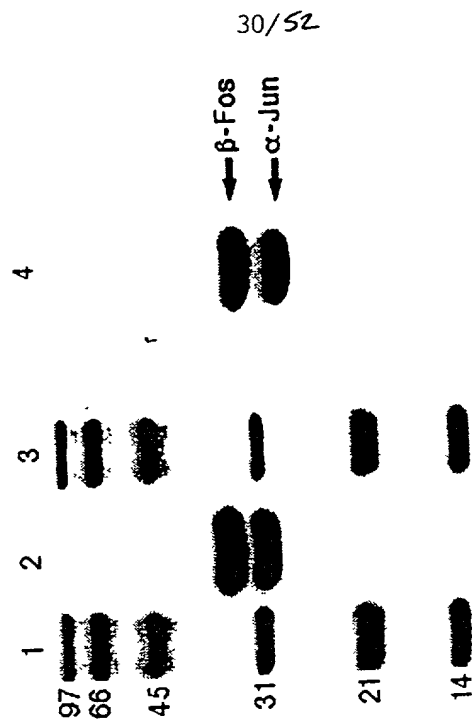
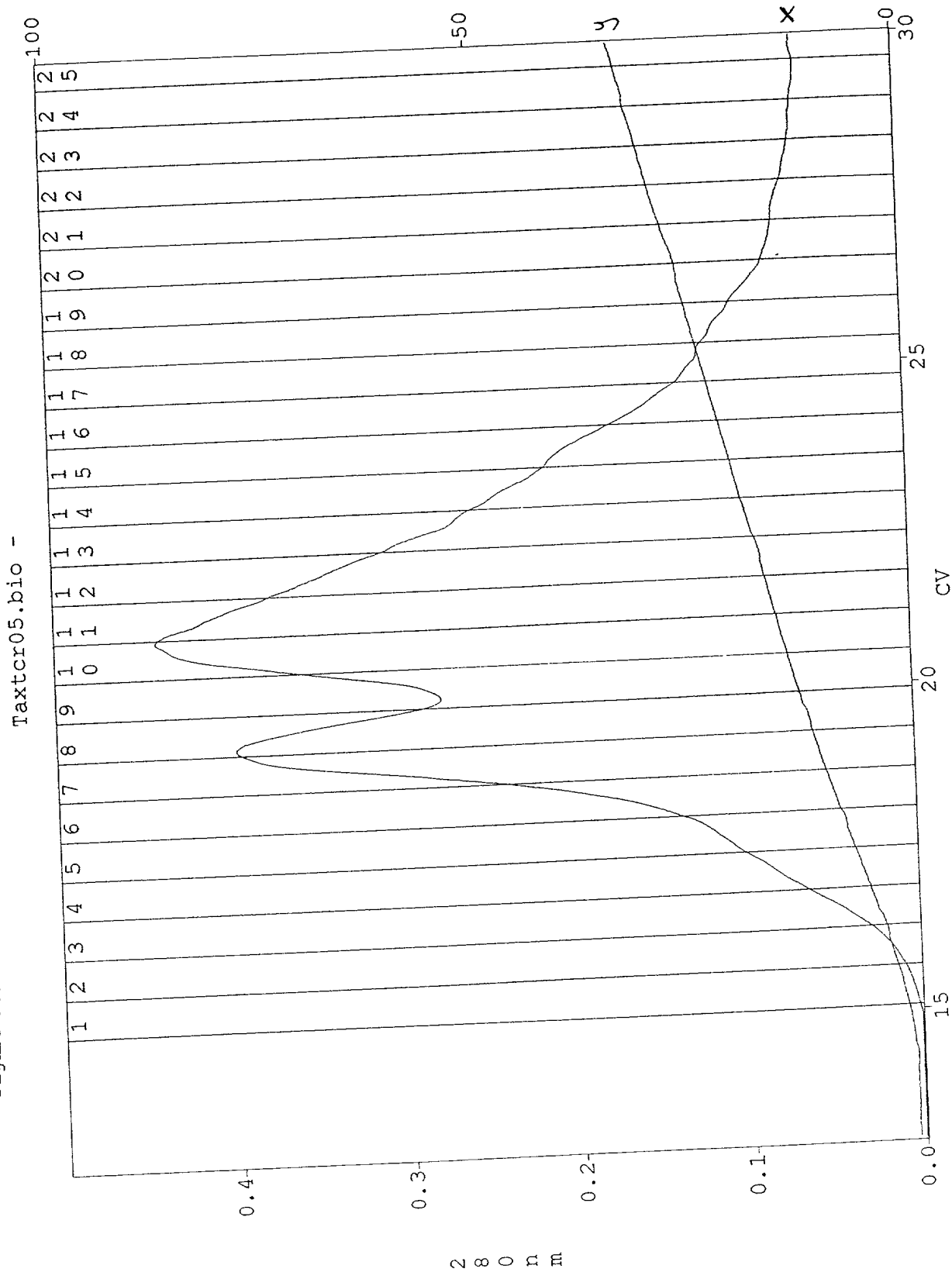


Figure 25.

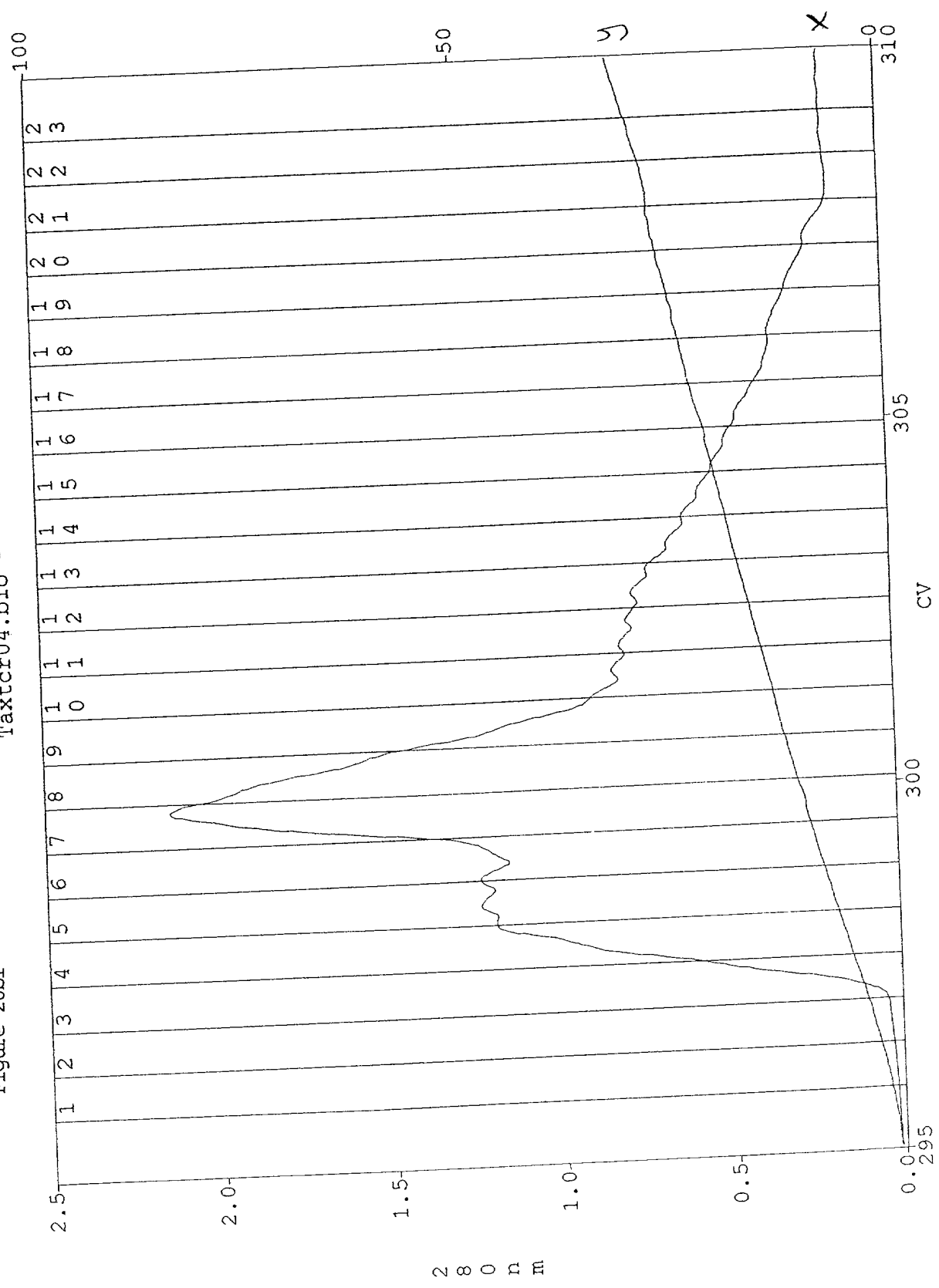
Figure 26ai



FILE "CECT00"

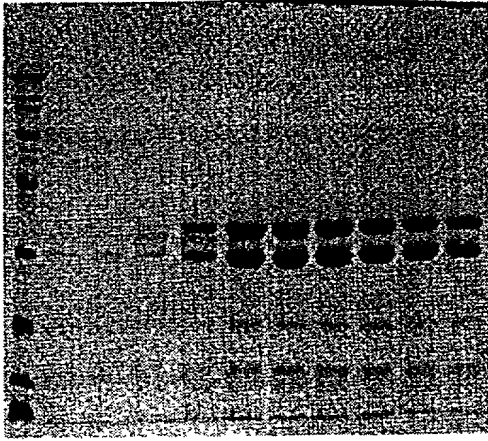
Figure 26bi

Taxtcr04.bio -



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m s

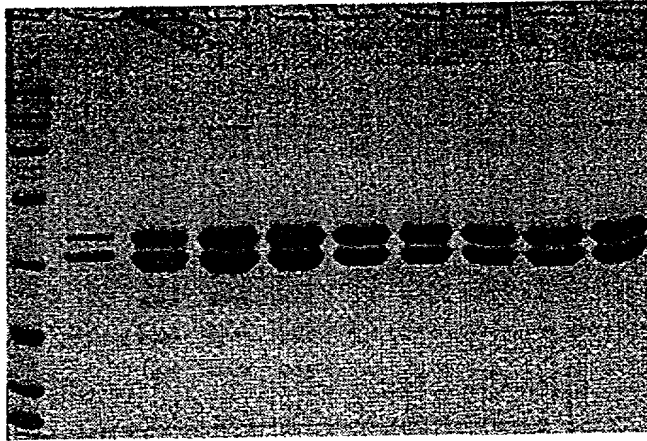
a.ii. 1 2 3 4 5 6 7 8 9 10 11



a.iii. 1 2



b.ii. 1 2 3 4 5 6 7 8 9 10



b.iii. 1 2 3

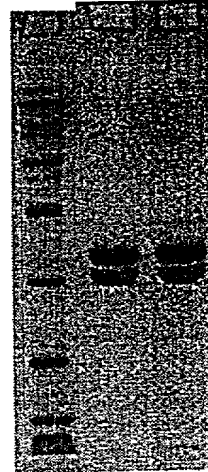


Figure 26

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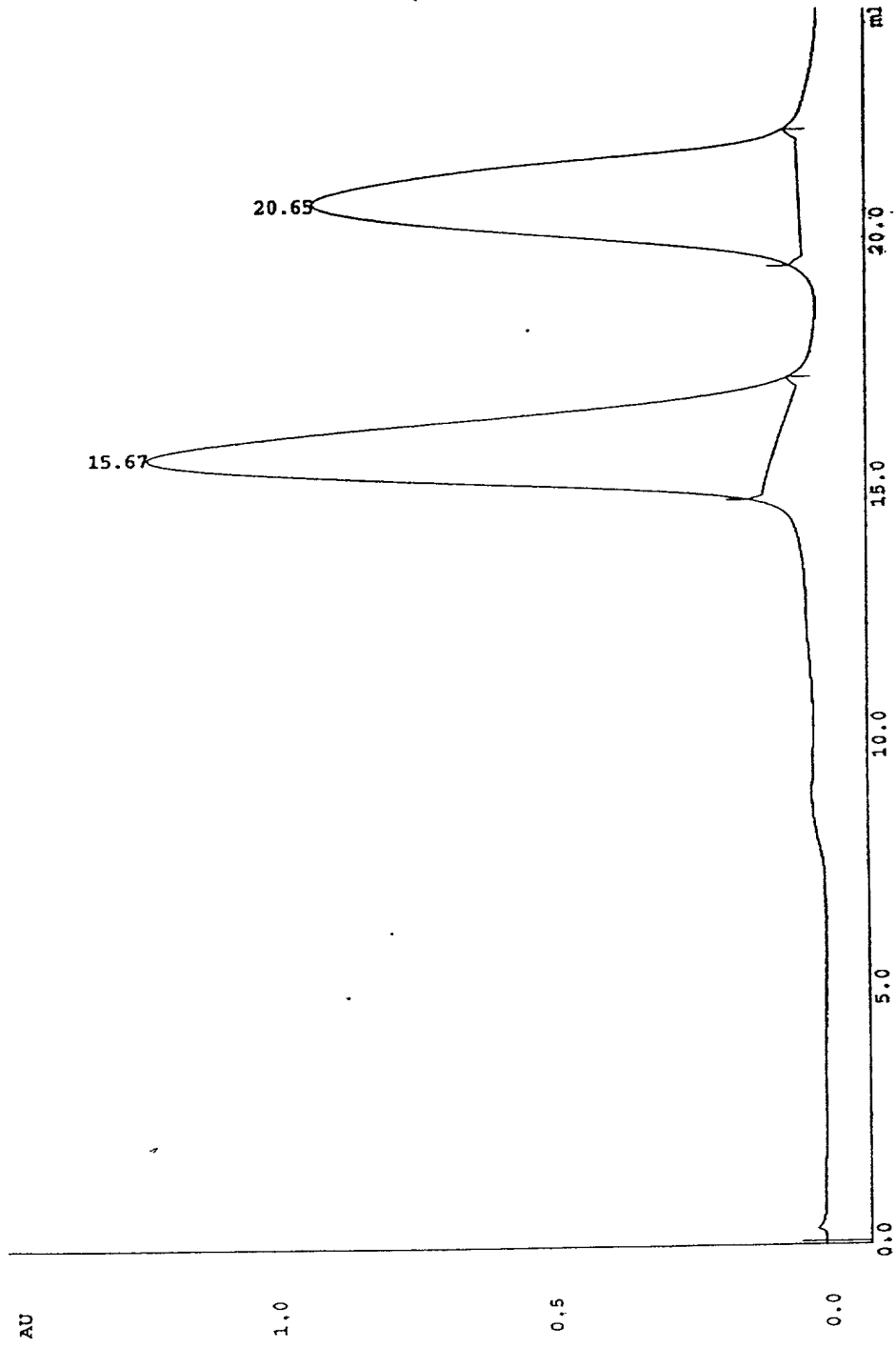


Figure 27

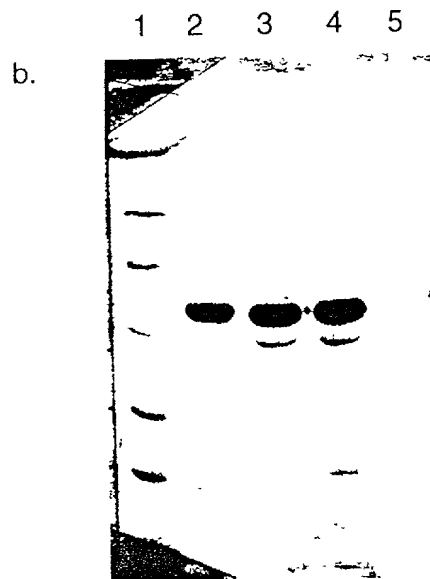
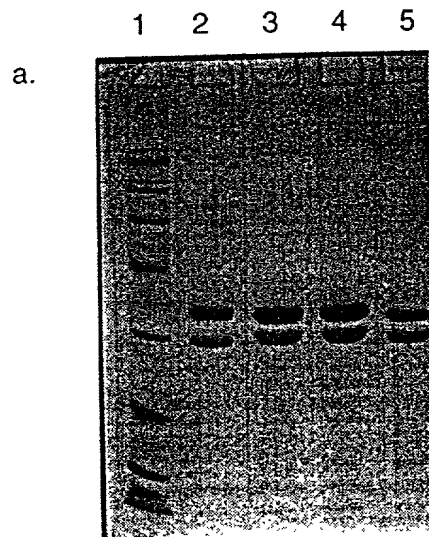


Figure 28

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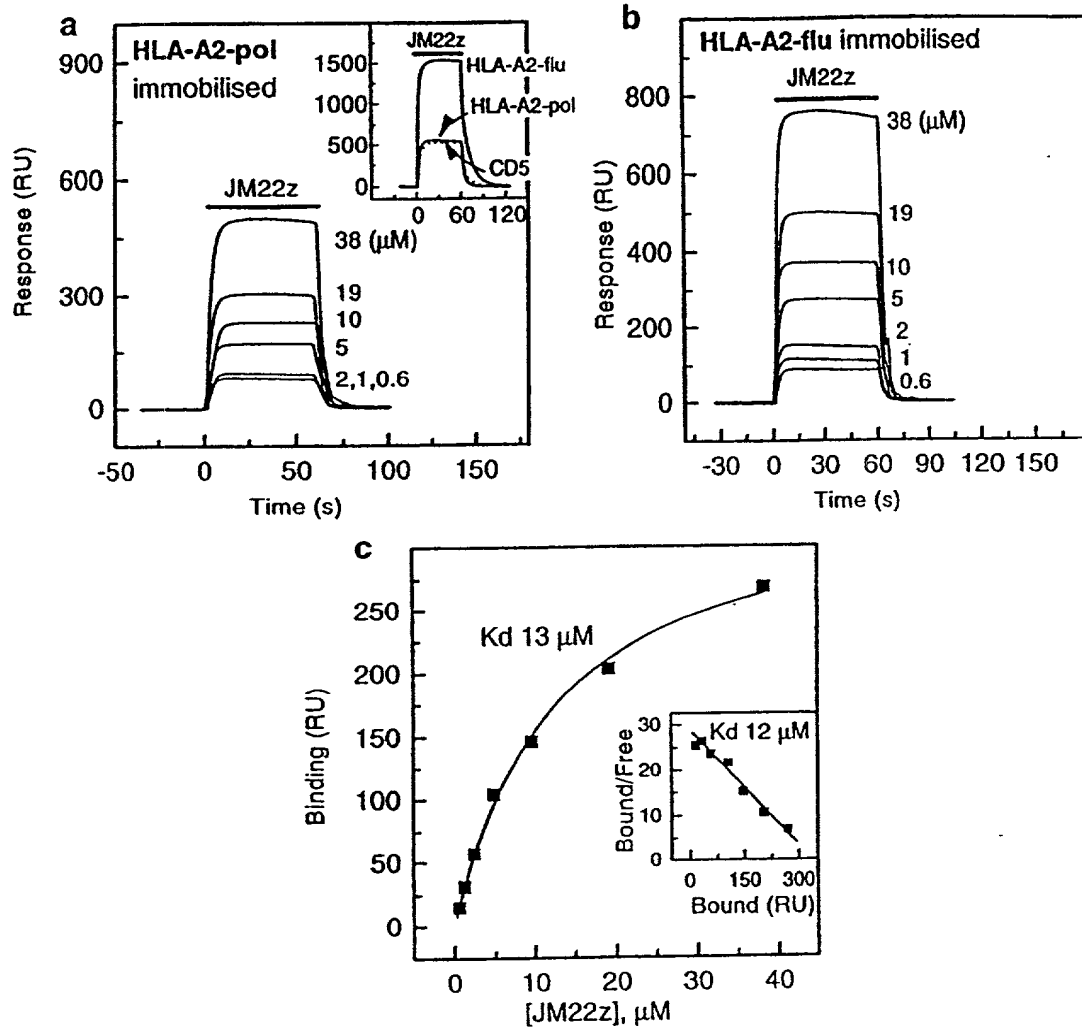


Figure 29

Figure 30

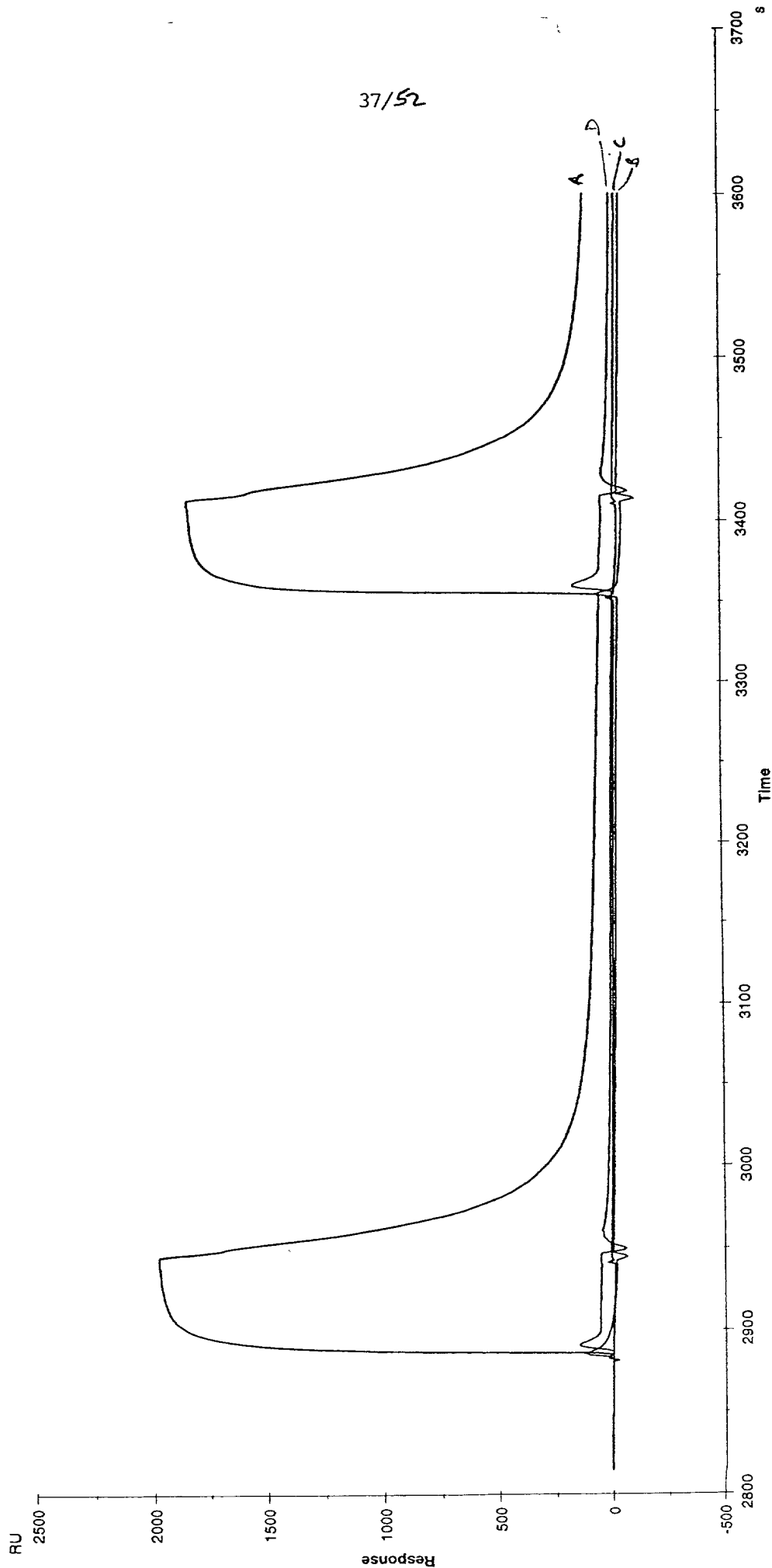
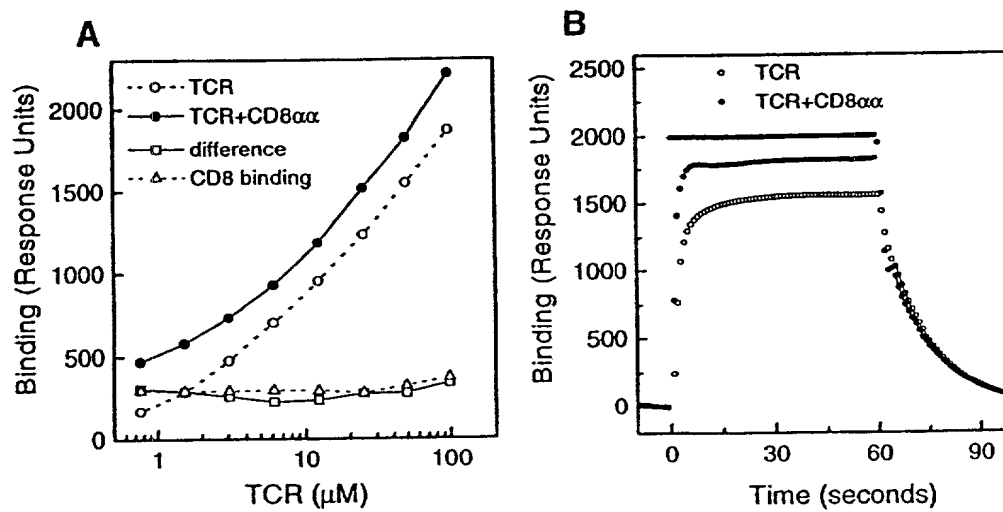


Figure 31



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FIGURE 32

TCR alfa>

M Q L L E Q S P Q F L S I Q E G E N L T
ATGCAaCTaCTaGAaCAaAGtCCTCAGTTTCTAAGCATCCAAGAGGGAGAAAATCTCACT

V Y C N S S S V F S S L Q W Y R Q E P G
GTGTACTGCAACTCCTCAAGTGTTTTTCCAGCTTACAATGGTACAGACAGGAGCCTGGG

E G P V L L V T V V T G G E V K K L K R
GAAGGTCCTGTCCTCCTGGTGACAGTAGTTACGGGTGGAGAAGTGAAGAAGCTGAAGAGA

L T F Q F G D A R K D S S L H I T A A Q
CTAACCTTTTCAGTTTGGTGATGCAAGAAAGGACAGTTCTCTCCACATCACTGCGGCCAG

P G D T G L Y L C A G A G S Q G N L I F
CCTGGTGATACAGGCCTCTACCTCTGTGCAGGAGCGGGAAGCCAAGGAAATCTCATCTTT

G K G T K L S V K P N I Q N P D P A V Y
GGAAAAGGCACTAAACTCTCTGTAAACCAAATATCCAGAACCCTGACCCTGCCGTGTAC

Q L R D S K S S D K S V C L F T D F D S
CAGCTGAGAGACTCTAAATCCAGTGACAAGTCTGTCTGCCTATTCACCGATTTTGATTCT

Q T N V S Q S K D S D V Y I T D K T V L
CAAACAAATGTGTCAAAAGTAAGGATTCTGATGTGTATATCACAGACAAAATGTGCTA

D M R S M D F K S N S A V A W S N K S D
GACATGAGGTCTATGGACTTCAAGAGCAACAGTGCTGTGGCCTGGAGCAACAAATCTGAC

F A C A N A F N N S I I P E D T F F P S
TTTGCATGTGCAAACGCCTTCAACAACAGCATTATTCAGAAGACACCTTCTTCCCCAGC

<TCR alfa linker c-jun>

P E S S P G G R I A R L E E K V K T L K
CCAGAAAGTTCCccccgggGGTAGAATCGCCCGGCTGGAGGAAAAAGTGAAAACCTTGAAA

A Q N S E L A S T A N M L R E Q V A Q L
GCTCAGAACTCGGAGCTGGCGTCCACGGCCAACATGCTCAGGGAACAGGTGGCACAGCTT

K Q K V M N Y *
AAACAGAAAGTCATGAACTACTAG

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FIGURE 33

TCR beta>

M V D G G I T Q S P K Y L F R K E G Q N
ATGGTGGATGGTGAATCACTCACTCCCCAAAGTACCTGTTCAGAAAGGAAGGACAGAAT

V T L S C E Q N L N H D A M Y W Y R Q D
GTGACCCTGAGTTGTGAACAGAATTTGAACCACGATGCCATGTACTGGTACCGACAGGAC

P G Q G L R L I Y Y S Q I V N D F Q K G
CCAGGGCAAGGGCTGAGATTGATCTACTACTCACAGATAGTAAATGACTTTCAGAAAGGA

D I A E G Y S V S R E K K E S F P L T V
GATATAGCTGAAGGGTACAGCGTCTCTCGGGAGAAGAAGGAATCCTTTCCTCTCACTGTG

T S A Q K N P T A F Y L C A S S S R S S
ACATCGGCCCAAAGAACCCGACAGCTTTCTATCTCTGTGCCAGTAGTTCGAGGAGCTCC

Y E Q Y F G P G T R L T V T E D L K N V
TACGAGCAGTACTTCGGGCCGGGCACAGGCTCACGGTCACAGAGGACCTGAAAAACGTT

F P P E V A V F E P S E A E I S H T Q K
TTCCACCCGAGGTCGCTGTGTTTGAACCATCAGAAGCAGAGATCTCCACACCCAAAAG

A T L V C L A T G F Y P D H V E L S W W
GCCCACTGGTGTGCCTGGCCACAGGCTTCTACCCCGACCACGTGGAGCTGAGCTGGTGG

V N G K E V H S G V S T D P Q P L K E Q
GTGAATGGGAAGGAGGTGCACAGTGGGGTCAGCACAGACCCGCAGCCCCTCAAGGAGCAG

P A L N D S R Y S L S S R L R V S A T F
CCCGCCCTCAATGACTCCAGATACTCCCTGAGCAGCCGCCTGAGGGTCTCGGCCACCTTC

W Q N P R N H F R C Q V Q F Y G L S E N
TGGCAGAACCCCGCAACCACTTCCGCTGTCAAGTCCAGTCTACGGGCTCTCGGAGAAT

[illegible]

D K K S A L Q T E I A N L L K E K E K L
GACAAGAAGTCTGCGTTGCAGACCGAGATTGCCAATCTACTGAAAGAGAAGGAAAACTA

E F I L A A Y *

GAGTTCATCCTGGCAGCTTACTAG

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FIGURE 34

TCR beta>

M V D G G I T Q S P K Y L F R K E G Q N
ATGGTGGATGGTGAATCACTCAGTCCCCAAAGTACCTGTTCAGAAAGGAAGGACAGAAT

V T L S C E Q N L N H D A M Y W Y R Q D
GTGACCCTGAGTTGTGAACAGAATTGAACCACGATGCCATGTACTGGTACCGACAGGAC

P G Q G L R L I Y Y S Q I V N D F Q K G
CCAGGGCAAGGGCTGAGATTGATCTACTACTCACAGATAGTAAATGACTTTCAGAAAGGA

D I A E G Y S V S R E K K E S F P L T V
GATATAGCTGAAGGTACAGCGTCTCTCGGGAGAAGAAGGAATCCTTTCCTCTCACTGTG

T S A Q K N P T A F Y L C A S S S R S S
ACATCGGCCCAAAGAACCCGACAGCTTTCTATCTCTGTGCCAGTAGTTCGAGGAGCTCC

Y E Q Y F G P G T R L T V T E D L K N V
TACGAGCAGTACTTCGGGCCGGGCACCAGGCTCACGGTCACAGAGGACCTGAAAAACGTT

F P P E V A V F E P S E A E I S H T Q K
TTCCCAACCCGAGGTCGCTGTGTTTGAACCATCAGAAGCAGAGATCTCCACACCCAAAAG

A T L V C L A T G F Y P D H V E L S W W
GCCACACTGGTGTGCCTGGCCACAGGCTTCTACCCCGACCACGTGGAGCTGAGCTGGTGG

V N G K E V H S G V S T D P Q P L K E Q
GTGAATGGGAAGGAGGTGCACAGTGGGGTCAGCACAGACCCGCAGCCCTCAAGGAGCAG

P A L N D S R Y S L S S R L R V S A T F
CCCGCCCTCAATGACTCCAGATACTCCCTGAGCAGCCGCTGAGGGTCTCGGCCACCTTC

W Q N P R N H F R C Q V Q F Y G L S E N
TGGCAGAACCCCGCAACCACTTCGCTGTCAAGTCCAGTTCTACGGGCTCTCGGAGAAT

FOOTNOTES

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D E W T Q D R A K P V T Q I V S A E A W
GACGAGTGGACCCAGGATAGGGCCAAACCTGTCACCCAGATCGTCAGCGCCGAGGCCTGG

<TCR beta linker c-fos>

G R A D P G G L T D T L Q A E T D Q L E
GGTAGAGCAGACcccgggGGTCTGACTGATACACTCCAAGCGGAGACAGATCAACTTGAA

D K K S A L Q T E I A N L L K E K E K L
GACAAGAAGTCTGCGTTGCAGACCGAGATTGCCAATCTACTGAAAGAGAAGGAAAACTA

linker Biotinylation tag>

E F I L A A Y G S G G G L N D I F E A Q
GAGTTCATCCTGGCAGCTTACggatccGGTGGTGGTCTGAACGATATTTTGAAGCTCAG

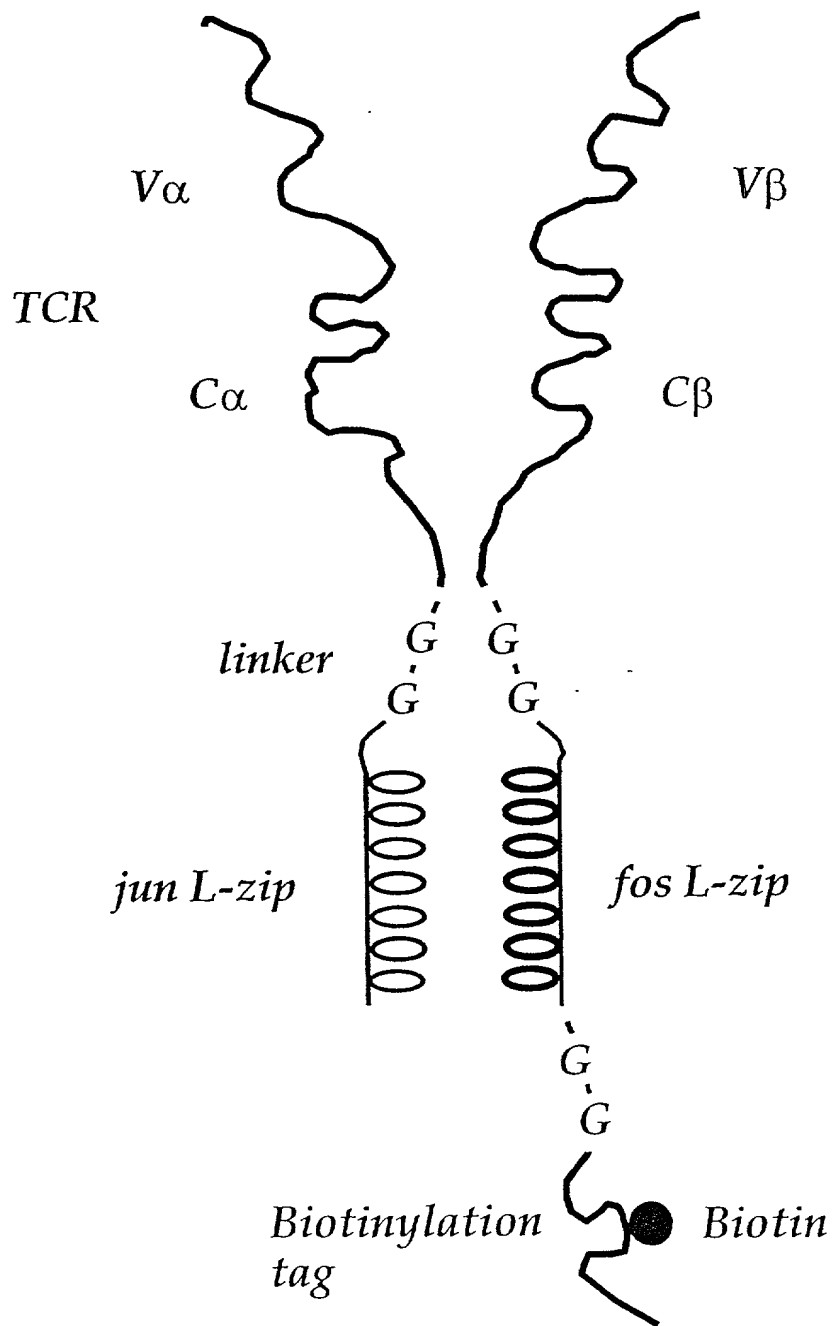
K I E W H *

AAAATCGAATGGCATTAA

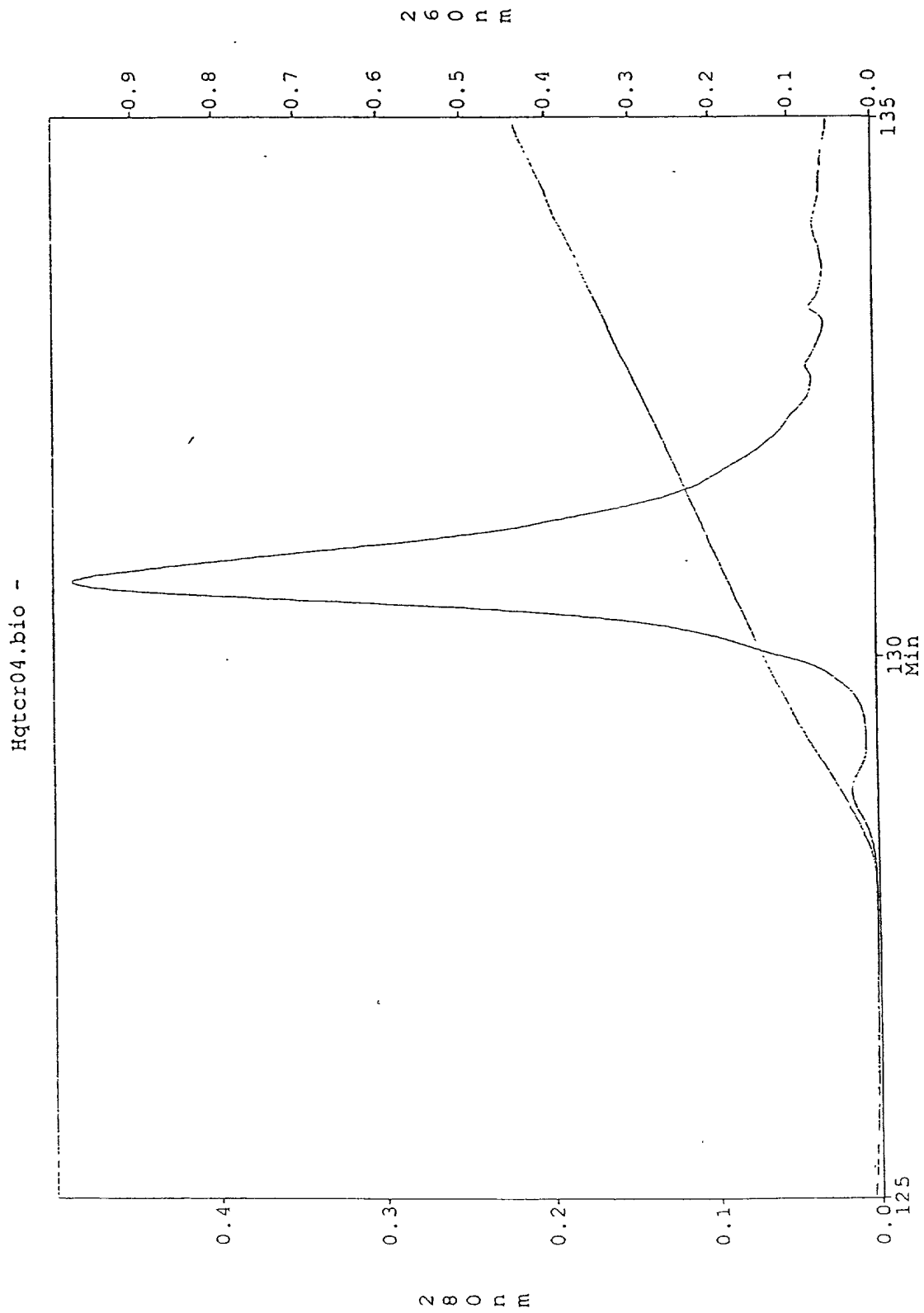
TCR beta c-fos

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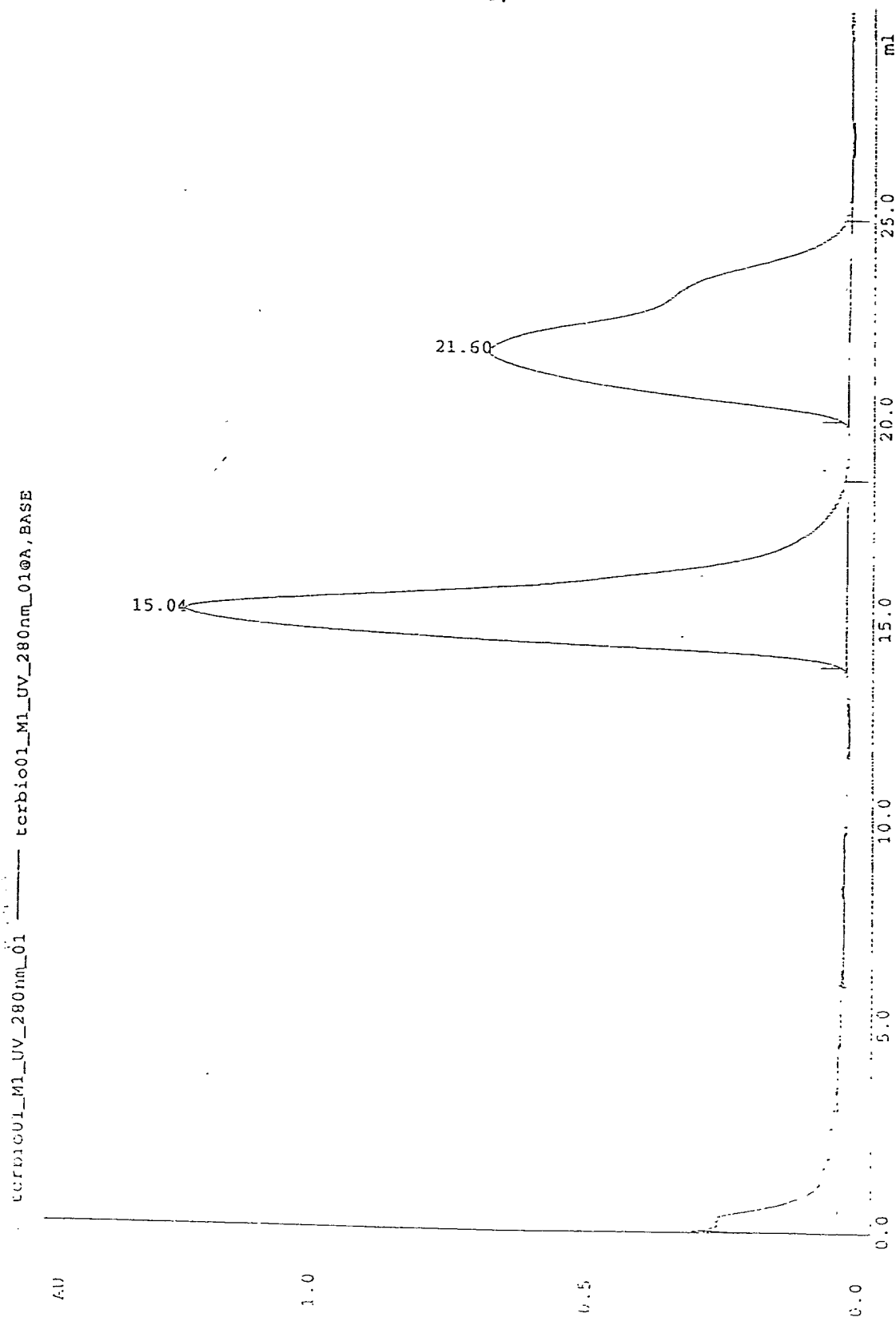
FIGURE 35



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FIGURE 36



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FIGURE 37



TOP SECRET

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FIGURE 38

TCR alfa>

M Q K E V E Q N S G P L S V P E G A I A
atgCAGAAGGAAGTGGAGCAGAACTCTGGACCCCTCAGTGTTCCAGAGGGAGCCATTGCC

S L N C T Y S D R G S Q S F F W Y R Q Y
TCTCTCAACTGCACTTACAGTGACCGAGGTTCCAGTCCTTCTTCTGGTACAGACAATAT

S G K S P E L I M S I Y S N G D K E D G
TCTGGGAAAAGCCCTGAGTTGATAATGTCCATATACTCCAATGGTGACAAAGAAGATGGA

R F T A Q L N K A S Q Y V S L L I R D S
AGGTTTACAGCACAGCTCAATAAAGCCAGCCAGTATGTTTCTCTGCTCATCAGAGACTCC

Q P S D S A T Y L C A V T T D S W G K L
CAGCCCAGTGATTACAGCCACCTACCTCTGTGCCGTTACAACTGACAGCTGGGGGAAATTG

Q F G A G T Q V V V T P D I Q N P D P A
CAGTTTGGAGCAGGGACCCAGGTTGTGGTCACCCCAGATATCCAGAACCCTGACCCTGCC

V Y Q L R D S K S S D K S V C L F T D F
GTGTACCAGCTGAGAGACTCTAAATCCAGTGACAAGTCTGTCTGCCTATTACCGATTTT

D S Q T N V S Q S K D S D V Y I T D K T
GATTCTCAAACAAATGTGTCACAAAGTAAGGATTCTGATGTGTATATCACAGACAAAAC

V L D M R S M D F K S N S A V A W S N K
GTGCTAGACATGAGGTCTATGGACTTCAAGAGCAACAGTGCTGTGGCCTGGAGCAACAAA

S D F A C A N A F N N S I I P E D T F F
TCTGACTTTGCATGTGCAAACGCCTTCAACAACAGCATTATTCCAGAAGACACCTTCTTC

<TCR alfa linker c-jun>

P S P E S S P G G R I A R L E E K V K T
CCCAGCCCAGAAAGTTCCcccgggGGTAGAATCGCCCGGCTGGAGGAAAAAGTGAAACC

L K A Q N S E L A S T A N M L R E Q V A
TTGAAGCTCAGAACTCGGAGCTGGCGTCCACGGCCAACATGCTCAGGGAACAGGTGGCA

Q L K Q K V M N Y *
CAGCTTAAACAGAAAGTCATGAACTACTAG

10014336 "seq" 1001

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FIGURE 39

TCR beta>

M N A G V T Q T P K F Q V L K T G Q S M
atgAACGCTGGTGTCACTCAGACCCCAAATTCAGGTCCTGAAGACAGGACAGAGCATG

T L Q C A Q D M N H E Y M S W Y R Q D P
ACACTGCAGTGTGCCCAGGATATGAACCATGAATACATGTCCTGGTATCGACAAGACCCA

G M G L R L I H Y S V G A G I T D Q G E
GGCATGGGGCTGAGGCTGATTCATTACTCAGTTGGTGCTGGTATCACTGACCAAGGAGAA

V P N G Y N V S R S T T E D F P L R L L
TGCCCCAATGGCTACAATGTCTCCAGATCAACCACAGAGGATTTCCTCGCTCAGGCTGCTG

S A A P S Q T S V Y F C A S R P G L A G
TCGGCTGCTCCCTCCCAGACATCTGTGTACTTCTGTGCCAGCAGGCCGGGACTAGCGGGA

G R P E Q Y F G P G T R L T V T E D L K
GGGCGACCAGAGCAGTACTTCGGGCCGGGCACCAGGCTCACGGTCACAGAGGACCTGAAA

N V F P P E V A V F E P S E A E I S H T
AACGTGTTCACCCGAGGTCGCTGTGTTTGAGCCATCAGAAGCAGAGATCTCCACACC

Q K A T L V C L A T G F Y P D H V E L S
CAAAGGCCACACTGGTGTGCCTGGCCACAGGCTTCTACCCCGACCACGTGGAGCTGAGC

W W V N G K E V H S G V S T D P Q P L K
TGGTGGGTGAATGGGAAGGAGGTGCACAGTGGGGTCAGCACAGACCCGAGCCCCTCAAG

E Q P A L N D S R Y A L S S R L R V S A
GAGCAGCCCGCCCTCAATGACTCCAGATACgctCTGAGCAGCCGCTGAGGGTCTCGGCC

T F W Q N P R N H F R C Q V Q F Y G L S
ACCTTCTGGCAGAACCCCGCAACCACTTCCGCTGTCAAGTCCAGTTCTACGGGCTCTCG

E N D E W T Q D R A K P V T Q I V S A E
GAGAATGACGAGTGGACCCAGGATAGGGCCAAACCTGTCACCCAGATCGTCAGCGCCGAG

<TCR beta linker c-fos>

A W G R A D P G G L T D T L Q A E T D Q
GCCTGGGGTAGAGCAGACcccgggGGTCTGACTGATACACTCCAAGCGGAGACAGATCAA

FOE F F " 9244 F00 F

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L E D K K S A L Q T E I A N L L K E K E
CTTGAAGACAAGAAGTCTGCGTTGCAGACCGAGATTGCCAATCTACTGAAAGAGAAGGAA

K L E F I L A A Y linker Biotinylation tag> G S G G G L N D I F E
AAACTAGAGTTCATCCTGGCAGCTTACggatccGGTGGTGGTCTGAACGATATTTTGA

A Q K I E W H *
GCTCAGAAAATCGAATGGCATTAAAGCTT

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FIGURE 40

TCR alfa>

M Q Q K N D D Q Q V K Q N S P S L S V Q
atgCAACAGAAGAATGATGACCAGCAAGTTAAGCAAAATTCACCATCCCTGAGCGTCCAG

E G R I S I L N C D Y T N S M F D Y F L
GAAGGAAGAATTTCTATTCTGAACTGTGACTATACTAACAGCATGTTGATTATTTCTTA

W Y K K Y P A E G P T F L I S I S S I K
TGGTACAAAAAATACCCTGCTGAAGGTCTACATTCCTGATATCTATAAGTTCCATTAAG

D K N E D G R F T V F L N K S A K H L S
GATAAAATGAAGATGGAAGATTCAGTGTCTTCTTAAACAAAAGTGCCAAGCACCTCTCT

L H I V P S Q P G D S A V Y F C A A M E
CTGCACATTGTGCCCTCCCAGCTGGAGACTCTGCAGTGTACTTCTGTGCAGCAATGGAG

G A Q K L V F G Q G T R L T I N P N I Q
GGAGCCCAGAAGCTGGTATTTGGCCAAGGAACCAGGCTGACTATCAACCCAAATATCCAG

N P D P A V Y Q L R D S K S S D K S V C
AACCCTGACCCTGCCGTGTACCAGCTGAGAGACTCTAAATCCAGTGACAAGTCTGTCTGC

L F T D F D S Q T N V S Q S K D S D V Y
CTATTCACCGATTTTGATTCTCAAACAAATGTGTACAAAGTAAGGATTCTGATGTGTAT

I T D K T V L D M R S M D F K S N S A V
ATCACAGACAAAATGTGCTAGACATGAGGTCTATGGACTTCAAGAGCAACAGTGCTGTG

A W S N K S D F A C A N A F N N S I I P
GCCTGGAGCAACAAATCTGACTTTGCATGTGCAAACGCCTTCAACAACAGCATTATTCCA

<TCR alfa linker c-jun>

E D T F F P S P E S S P G G R I A R L E
GAAGACACCTTCTTCCCCAGCCCAGAAAGTTCCcccgggGGTAGAATCGCCCGGCTGGAG

E K V K T L K A Q N S E L A S T A N M L
GAAAAAGTGAAAACCTTGAAAGCTCAGAACTCGGAGCTGGCGTCCACGGCCAACATGCTC

R E Q V A Q L K Q K V M N Y *
AGGGAACAGGTGGCACAGCTTAAACAGAAAGTCATGAACTACTAG

TCR alpha

51/52

FIGURE 41

TCR beta>

M N A G V T Q T P K F Q V L K T G Q S M
atgAACGCTGGTGTCACTCAGACCCCAAAATCCAGGTCCTGAAGACAGGACAGAGCATG

T L Q C A Q D M N H E Y M S W Y R Q D P
ACACTGCAGTGTGCCAGGATATGAACCATGAATACATGTCTGGTATCGACAAGACCCA

G M G L R L I H Y S V G A G I T D Q G E
GGCATGGGGCTGAGGCTGATTACTCAGTTGGTGTGGTATCACTGACCAAGGAGAA

V P N G Y N V S R S T T E D F P L R L L
GTCCCCAATGGCTACAATGTCTCCAGATCAACCACAGAGGATTTCCCGCTCAGGCTGCTG

S A A P S Q T S V Y F C A S S Y P G G G
TCGGCTGCTCCCTCCAGACATCTGTGTACTTCTGTGCCAGCAGTTACCaGGaGGGGGGG

F Y E Q Y F G P G T R L T V T E D L K N
TTTTACGAGCAGTACTTCGGGCCGGGCACCAGGCTCACGGTCACAGAGGACCTGAAAAAC

V F P P E V A V F E P S E A E I S H T Q
GTGTTCCACCCGAGGTCGCTGTGTTTGAGCCATCAGAAGCAGAGATCTCCACACCCAA

K A T L V C L A T G F Y P D H V E L S W
AAGGCCACACTGGTGTGCCTGCCACAGGCTTCTACCCCGACCACGTGGAGCTGAGCTGG

W V N G K E V H S G V S T D P Q P L K E
TGGGTGAATGGGAAGGAGGTGCACAGTGGGGTCAGCACAGACCCGCAGCCCTCAAGGAG

Q P A L N D S R Y A L S S R L R V S A T
CAGCCCGCCCTCAATGACTCCAGATACgctCTGAGCAGCCGCCTGAGGGTCTCGGCCACC

F W Q D P R N H F R C Q V Q F Y G L S E
TTCTGGCAGgACCCCCGCAACCACTTCCGCTGTCAAGTCCAGTTCTACGGGCTCTCGGAG

N D E W T Q D R A K P V T Q I V S A E A
AATGACGAGTGGACCCAGGATAGGGCCAAACCCGTCACCCAGATCGTCAGCGCCGAGGCC

<TCR beta linker c-fos>

W G R A D P G G L T D T L Q A E T D Q L
TGGGGTAGAGCAGACcccggtGTCTGACTGATACACTCCAAGCGGAGACAGATCAACTT

TCR beta " 51/52 " TCGT

52/52

E D K K S A L Q T E I A N L L K E K E K
GAAGACAAGAAGTCTGCGTTGCAGACCGAGATTGCCAATCTACTGAAAGAGAAGGAAAAA

linker Biotinylation tag>
L E F I L A A Y G S G G G L N D I F E A
CTAGAGTTCATCCTGGCAGCTTACggatccGGTGGTGGTCTGAACGATATTTTTGAAGCT

Q K I E W H *
CAGAAAATCGAATGGCATTAAAGCTT

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